



PATENT  
Docket No. 2369/25

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANTS : Kazuhito TSUKAGOSHI, et al.  
SERIAL NO. : 09/504,623  
FILED : February 15, 2000  
FOR : **MAGNETOELECTRIC DEVICE**  
GROUP ART UNIT : 2813  
EXAMINER : J.M. Dolan

ASSISTANT COMMISSIONER  
FOR PATENTS  
Washington, DC 20231

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**RESPONSE TO OFFICE ACTION**

SIR:

In response to the Office Action dated November 29, 2002, the due date being extended by the attached Petition for Extension of Time, Applicants request reconsideration of the rejections contained therein based upon the following remarks.

**REMARKS**

The Office Action rejects claims 1, 2-3, 13-14, 21, 23 and 25 under 35 U.S.C. § 102 over IEEE Transactions on Magnetics Article to Schwarzacher. This rejection is respectfully traversed.

Schwarzacher discloses a number of different material systems that exhibit giant magnetoresistance (GMR). The Office Action indicates that the disclosure of nanowires in Schwarzacher anticipates the recitation of the channel region being configured to provide a quasi-one-dimensional channel to cause charge carriers which pass through the first ferromagnetic region to maintain their spin polarization as they pass towards the second